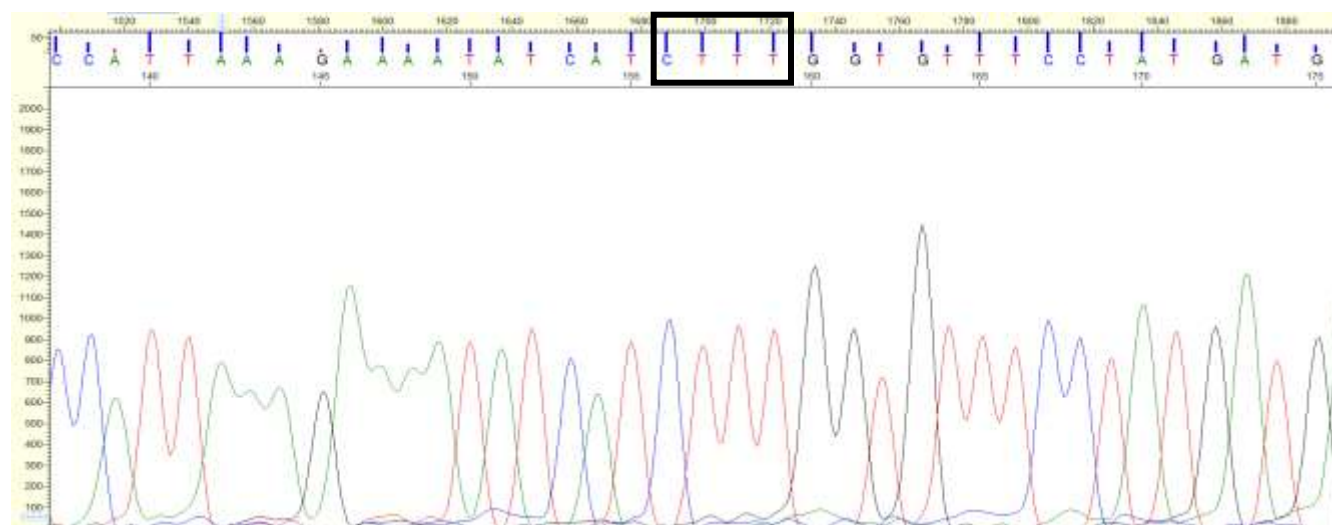


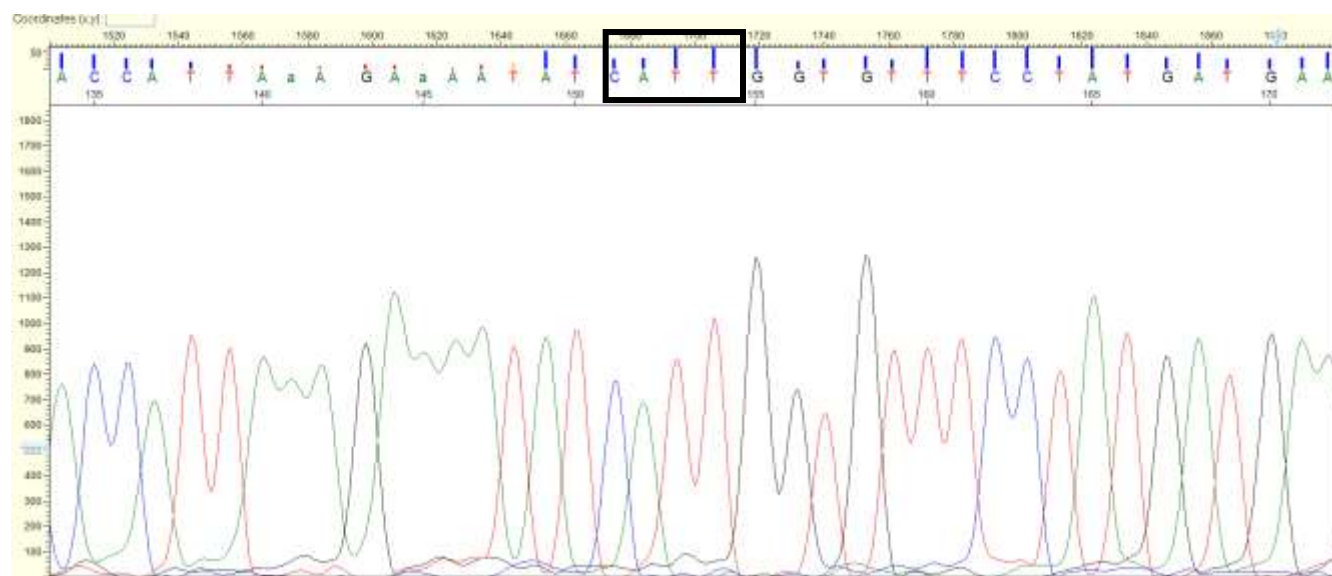


## Supplementary material

### Electropherogram of positive control



**Figure S 1: Electropherogram of a DF508 Normal (Wild-Type) CFTR Sample** This electropherogram illustrates the results of the optimized Sanger sequencing-based capillary electrophoresis (CE) assay, showing the absence of the DF508 mutation in a wild-type CFTR sample.



**Figure S 2: Electropherogram of a DF508 Homozygous CFTR Sample:** This electropherogram demonstrates the results of the optimized Sanger sequencing-based capillary electrophoresis (CE) assay, showing the presence of the DF508 mutation in a homozygous state. The consistent peaks across the region indicate the absence of the wild-type allele and confirm the homozygous nature of the mutation.

